

Stavis Seafoods, Inc.

STANDARD OPERATING PROCEDURES — LINE AND EQUIPMENT OPENING / OIL DRAINING PROCEDURE

Line and Equipment Opening / Oil Draining Procedure

Objective	This procedure is established to describe the Safe Work Practice for safely opening lines and equipment for maintenance and turnaround.
Purpose	<p>The purpose of this Safe Work Practice is to provide the procedures for safely opening lines and equipment in the ammonia refrigeration system. The steps in this procedure are to be followed when opening an ammonia line or connected equipment to inspect, remove, repair, clean, or reinstall the line or connected equipment. Examples of operations which could be considered line opening are: Removing a strainer basket</p> <p>Working on a transfer pump seal Removing a valve from a transfer line for repair Draining oil from an oil trap reservoir</p>
Concerns	<p>Whenever ammonia refrigeration lines and equipment are taken out of service, care must be taken to prevent accidental leakage of ammonia. To minimize potential leakage from lines and equipment that contain ammonia, they should be pumped out before being opened. It should be assumed that the line or equipment could contain liquid ammonia unless absolutely proven otherwise. Among the incidents we are trying to prevent are:</p> <p>Injury to operator(s) during the line and equipment opening procedure Potential fire and explosion due to attaining a flammable atmosphere and providing an ignition source</p>
Department	Maintenance
Operator/ Responsibility	Facility Manager – Nick Buttera
Equipment / Location	One controlled pressure receivers located at southwest corner of facility behind evaporative condensers. Five reciprocating compressors, in the engine room on the west end of the facility. One low temp recirculator in the engine room. One high temperature recirculator in the engine room. One evaporative condenser outside on the roof above the engine room. Three evaporators in the storage freezer. Nine evaporators in the coolers.. Four evaporators on the dock. One Medium Temperature vessel located in the engine room.
Related documents	<p>Inspection and Maintenance Records — in the Facility Managers' office.</p> <p>System Log Book — in the Facility Manager's office.</p> <p>Manufacturer's Installation and Operations documents — in the Facility Managers office. Block Diagrams — in the PSM/RMP Program document — Facility Managers office. P&IDs - in the RMP Program document — Facility Managers office.</p> <p>Ammonia MSDS — in Right to Know notebook located in the hall at battery charging station. Copies of all documents — Facility Managers office.</p>
Initial SOP development date	
Authorized by	
Revision	No. 0
Annual Review by	